AMENDMENTS TO THE CLAIMS

- 1. (Previously Presented) A capacitor structure comprising:
 - a plurality of first conductive layers;
 - a plurality of second conductive layers interleaved with the first conductive layers;
 - a plurality of dielectric layers separating adjacent conductive layers;
 - a plurality of first conductive vias to electrically connect the first conductive layers;
 - a plurality of second conductive vias to electrically connect the second conductive layers;

and

wherein openings are formed in the capacitor structure to enable pins from an integrated circuit package to pass through.

- 2. (Previously Presented) The capacitor structure of claim 1, wherein each of the openings has a diameter which is greater than a diameter of each pin from the integrated circuit package such that a defined distance is maintained between an edge of each respective opening and each respective pin.
- 3. (Previously Presented) The capacitor structure of claim 1, wherein the openings are arranged to coincide with at least four pins from the integrated circuit package that are located directly underneath a semiconductor die.
- 4. (Previously Presented) The capacitor structure of claim 1, further comprising:
 a plurality of first conductive terminals coupled to the plurality of first conductive vias;
 and
- a plurality of second conductive terminals coupled to the plurality of second conductive vias.

- (Previously Presented) The capacitor structure of claim 4, wherein:
 the first conductive terminals are configured for coupling to a ground plane provided in
 an IC package; and
- the second conductive terminals are configured for coupling to a power plane provided in the IC package.
- 6. (Original) A system comprising: an integrated circuit (IC) coupled to a first side of an IC package; and a capacitor attached to a second side of the IC package underneath the integrated circuit, the capacitor having openings to enable pins from the IC package to pass through.
- 7. (Original) The system of claim 6, wherein the openings are arranged to coincide with at least four pins from the IC package that are located directly underneath the integrated circuit.
- 8. (Original) The system of claim 6, wherein the capacitor comprises:
 a plurality of first conductive layers coupled to a first node in the integrated circuit;
 a plurality of second conductive layers interleaved with the first conductive layers, the second conductive layers coupled to a second node in the integrated circuit; and a plurality of dielectric layers separating adjacent conductive layers.
- 9. (Original) The system of claim 8, wherein the capacitor further comprises: a plurality of first conductive vias to electrically connect the first conductive layers; a plurality of second conductive vias to electrically connect the second conductive layers; a plurality of first conductive terminals coupled to the plurality of first conductive vias; and a plurality of second conductive terminals coupled to the plurality of second conductive vias.
- 10. (Previously Presented) The system of claim 6, wherein each of the openings formed in the capacitor has a diameter which is greater than a diameter of each pin from the integrated

circuit package such that a defined distance is maintained between an edge of each respective opening and each respective pin.

- 11. (Original) The system of claim 6, further comprising: a socket to receive the pins from the IC package
- 12. (Original) The system of claim 11, wherein the socket is a full-grid socket that is capable of receiving power and ground pins located on a backside of the package under a die shadow.
- 13. (Original) The system of claim 11, wherein the socket is shaped to accommodate the capacitor attached to the IC package.
- 14. (Original) The system of claim 6, wherein the integrated circuit is embodied in a form of a semiconductor die.
- 15. (Currently Amended) A method comprising: providing a capacitor with a plurality of openings; providing an integrated circuit (IC) housed by an IC package; passing pins from the IC package through the openings formed in the capacitor; positioning the capacitor on a backside of the IC package directly underneath the integrated circuit;

electrically connecting <u>and attaching conductive terminals between</u> the capacitor to and the IC package.

- 16. (Original) The method of claim 15, further comprising: electrically connecting the IC package to a socket.
- 17. (Original) The method of claim 15, wherein the capacitor comprises:
 a plurality of first conductive layers;
 a plurality of second conductive layers interleaved with the first conductive layers; and
 a plurality of dielectric layers separating adjacent conductive layers.

18. (Original) The method of claim 17, wherein electrically connecting the capacitor to the IC package comprises:

electrically coupling the first conductive layers to a first node in the integrated circuit; and electrically coupling the second conductive layers to a second node in the integrated circuit.

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